Passenger Elevator

MRL / MR Gearless / MR Geared

Office Residential Transport Retail Hotel Education

Export Division
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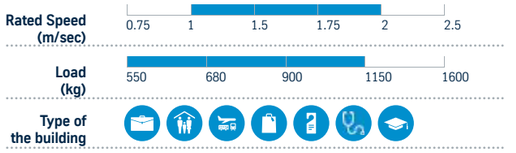
ThyssenKrupp Elevator (Korea)

ThyssenKrupp Elevator (Korea) proudly introduced that the longest history ever has in local elevator industries in Korea as an specialized elevator company with the advanced technology in transportation system.
Mainly product portfolios includes passenger and freight elevator, escalator, moving walk as well as tailored service solutions for all products offers innovative and energy efficient product designed to meet customer's individual requirements.
ThyssenKrupp Elevator is one of the world's leading elevator company generating with annual sales of 5.7 billion euros has 900 locations around the world provide an extensive sales and service network to guarantee closeness to customers.

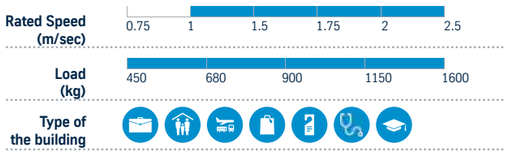
From Conception to Perfection

Cumbersome in selection for the building?
Here we are helping you all the way with customized one-stop solution even the dedicated details you might miss.

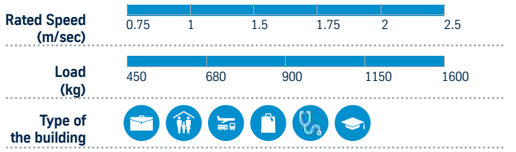
MRL



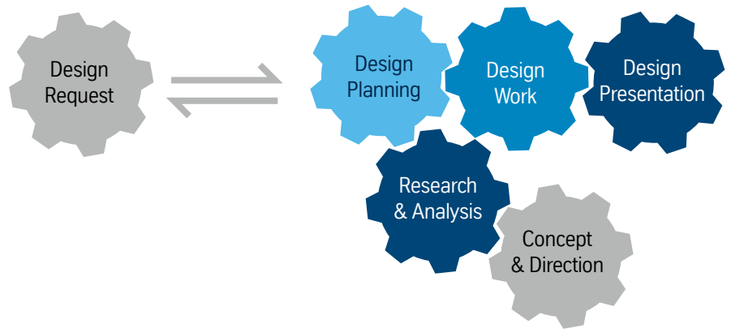
MR Gearless

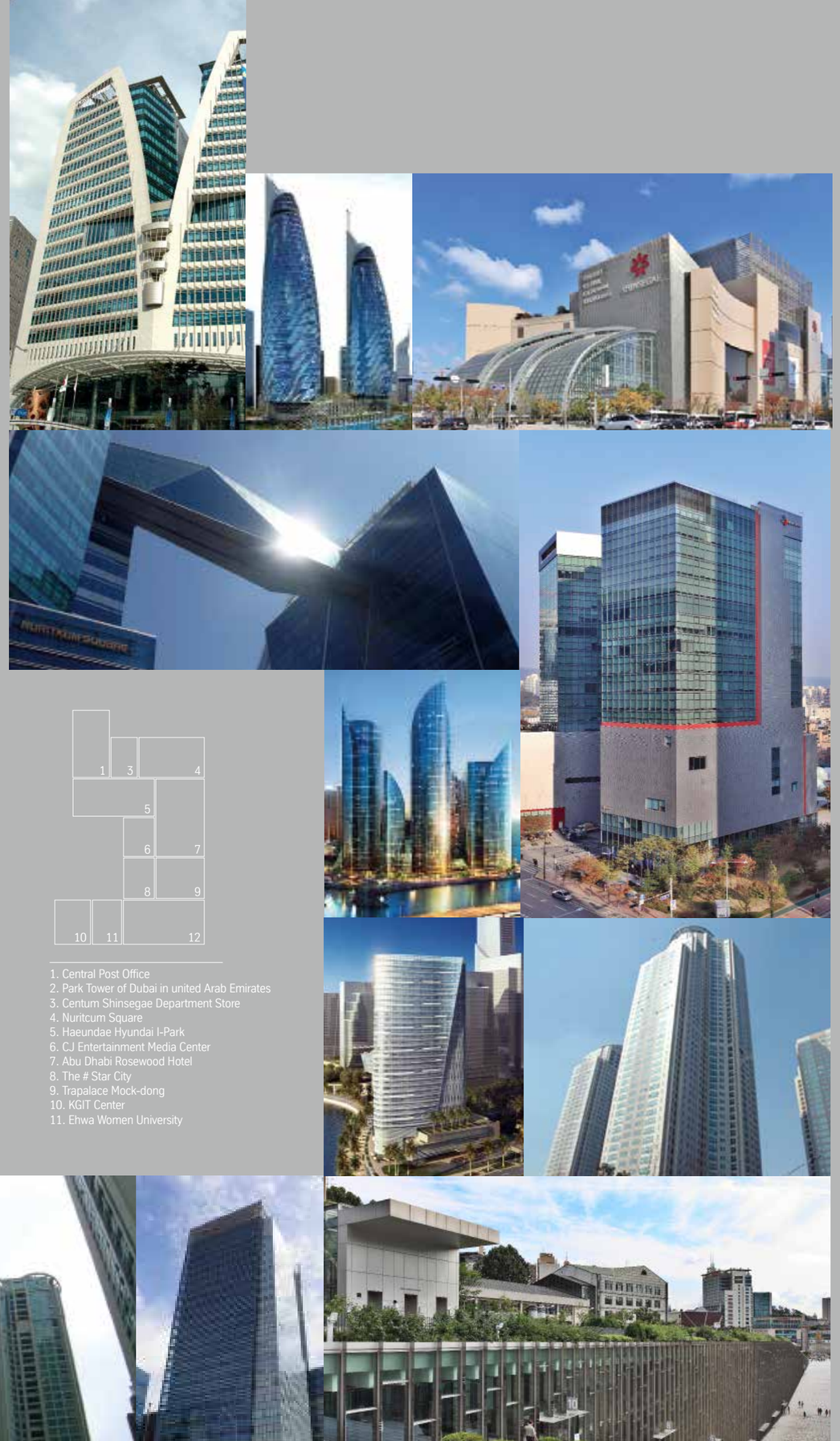


MR Geared



Design Process





1. Central Post Office
2. Park Tower of Dubai in united Arab Emirates
3. Centum Shinsegae Department Store
4. Nuritcum Square
5. Haeundae Hyundai I-Park
6. CJ Entertainment Media Center
7. Abu Dhabi Rosewood Hotel
8. The # Star City
9. Trapalace Mock-dong
10. KGIT Center
11. Ehwa Women University

MRL

ThyssenKrupp Elevator (Korea), providing you an extraordinary product and service based on advanced technology and global competence.

Improvement in space efficiency
Allow flexibility in architectural design with high space efficiency. System efficiency is maximized by the optimized design and compact system. Main controller is placed next to the hall door at top floor, enhancing the convenience of maintenance work. Significantly saving construction cost as no further construction or facility cost for machine room is needed.

High level quality and safety
Specialized design for noise and vibration control.
Equipped with major safety devices in compliance with EN 81-1 and KS

Stylish design in harmony for the building
Luxurious and up-to-date cabin design contributes to enhancing building's beauty. Newly developed stylish ceiling, button and Indicator with the latest design trend.

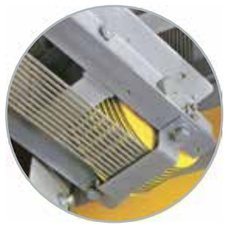
High performance and efficiency satisfying customer needs
Permanent Magnet Synchronous Gearless Machine with Regenerative Inverter(option) will maximize energy efficiency and eco-friendliness. Achieved VDI 4707 certificate grade A from TűV SűD with highly efficient products in energy consumption. It also apply to LED Lights

1. Traction Machine
2. Roping System
3. Overspeed Governor
4. Pulley

1

2

3



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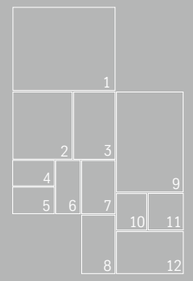


1. Dongwon Industrial Building
2. Haeundae The Sharp Centum Star City
3. Vietnam Kyungnam Hanoi Landmark Building
4. Ajou University Medical Center
5. Dubai Marina Office Tower
6. Korea Investment & Securities Co., Ltd.
7. Posco Songdo Office Building
8. TRUTEC Building
9. Samsung Office Building
10. The # Centum Star Busan
11. Tower Palace
12. Hyundai Capital the 2nd HQ in Yeoeuido

MR

ThyssenKrupp Elevator (Korea) elevates the value of the building with Leading Elevator Technology

Comfort Ride
Specialized design for noise and vibration control.
Traction machine with optimal anti-vibration structure helps minimizing the noise.
Passengers can enjoy great open feeling thanks to the increased ceiling height.

The new values created for you.
Energy saving with the new gearless drive.
Compact and practical drive system will help to manage the building more conveniently.
Our Stylish and trendy cabin design offers a sense of elegance, helping to enhance the building's value.

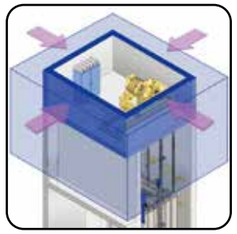
Securing passenger's safety with high performance product
CPIK Inverter and TAC 50K Controller of German origin guarantee reliability and security.
Can-bus communication protocol guarantees highly reliable data transmission and minimal latency time.
Dual brake system offers safe brake operation and unparalleled safety.

1. CPIK Inverter based on German Technology
2. High efficient Gearless Machine
3. Compact Drive System design
4. GIS (Geographic Information System)

1

2

3



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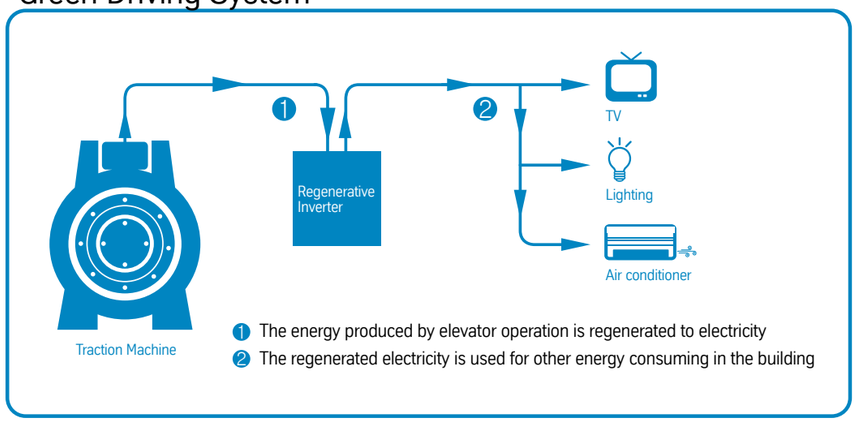
Sustainable Efficiency

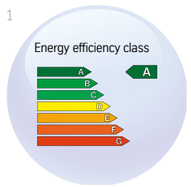
ThyssenKrupp Elevator provides Eco-Friendly Products

Green Driving System



1. Acquired VDI 4707 Energy Efficiency Grade A from German TüV SüD.
2. Regenerative Inverter;
   Highly efficient (about 56% energy saving)
   Regenerative Inverters exported worldwide
3. Laser Marking;
   Echo friendly technique is applied instead of chemical etching
4. Cheonan Plant is selected as the first Green Company in Korean elevator business by the government

1



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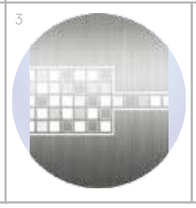

4

5

Optional Items

Value adds

1. Destination Selection Control (DSC)
The passenger selects his/her destination floor on touch screen board. After then, DSC assigns an elevator which can take the passenger to the destination the fastest. It advanced developed system

2. Group Control System
Grouping a couple of cars and using artificial intelligence, it minimizes the time to reach destination and maximizes operation efficiently

3. CPIK –RM Inverter
CPIK RM inverter regenerates energy to be used for other usage in the building, contributing to saving energy

4. LCD/ LED Display
Provides the passengers with various information throught the screen in the car or hall

5. Multi-beam Sensor
Detects the objects between doors to let the doors automatically reopen, preventing an accident

6. LED Light
You can select LED light for all the ceilings in this brochure as optional. Compared to the fluorescent lamp, LED light saves energy and realizes various lighting design

7. Closed Circuit Television (CCTV)
For security and anti-crime purpose, CCTV allows the car inside to be monitored recording the video at the same time.

8. Selectable button light colors
Instead of white color(standard) you can select orange color as optional

9. Card Key
For preventing non-identified visitors from entry, anti-crime and security purpose, Card Key allows the building owner to set a limit on elevator using

10. Auto Announcement
Voice Announcement helps the blind use elevator conveniently

11. **Tactile Button**
Tactile allows you to touch and feel the button in 3D for the blind use

1. Destination Selection Control (DSC)
2. Group Control System
3. CPIK –RM Inverter
4. Multi-beam Sensor
5. Multi-beam Sensor
6. LED Light
7. Closed Circuit Television (CCTV)
8. Selectable button light colors
9. Card Key
10. Auto announcement
11. Tactile Button

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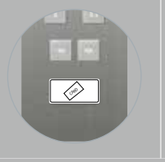

10

11

Cabin Design_01

The Modern
Stainless Steel Etching Finish

The Modern Design
1. Front view
2. Rear view persons6~10
3. Rear view persons11~24
4. COP allocates on the Side Panel for MRL (550kg~630kg)

1

2

3

4

CEILING	EX-10N
COP	DM-C-TK11
DOOR	Hairline Etching Finish (ET-15)*
WALL	Hairline Etching Finish (CSE-10)*
FLOOR	DTE-2904

- The printed color could be different from the actual object.
- Etching pattern and the shape of ceiling is subject to change according to car capacity.

*For Stainless Steel, Neometal is used as Standard

Cabin Design_01

The Plain
Painted Sheet Steel

Color Chart
- F-287500
- F-309003
- F-288002
- F-428501

The Plain Design
1. Front view
2. Rear view persons6~10
3. Rear view persons11~24
4. COP allocates on the Side Panel for MRL (550kg~630kg)

1

2

3

4

CEILING	EX-11N
COP	DM-C-TK11N
DOOR	Painted Sheet Steel (F-287500)
WALL	Painted Sheet Steel (F-287500)
FLOOR	DTE-2241 / DTE-2261

- The printed color could be different from the actual object.
- The shape of the ceiling subject to change according to car capacity.
- Please select the color from the color chart.

Cabin Design_01

The Spacious
Stainless Steel Laser Marking Finish

The Spacious Design
1. Front view
2. Rear view persons6~10
3. Rear view persons11~24
4. COP allocates on the Side Panel for MRL (550kg~630kg)

1

2

3

4

CEILING	EX-04N
COP	DM-C-99
DOOR	Hairline Laser Marking (LM-06)*
WALL	Hairline Laser Marking (CLM-06)*
FLOOR	DTE-2241 / DTE-2246

- The printed color could be different from the actual object.
- Laser Marking pattern and the shape of ceiling is subject to change according to car capacity.

*For Stainless Steel, Neometal is used as Standard

Cabin Design_01

The Floral
High Glossy Coating

The Floral Design
1. Front view
2. Rear view persons6~10
3. Rear view persons11~24
4. COP allocates on the Side Panel for MRL (550kg~630kg)

1

2

3

4

CEILING	EX-08N
COP	FM-C-99(option, GD excl.)
DOOR	High Glossy Coating Vivid Floral(HG-01)
WALL	High Glossy Coating Vivid Floral(HG-01)
FLOOR	DTE-2407

- The printed color could be different from the actual object.
- High Glossy Coating pattern and the shape of the ceiling is subject to change according to car capacity.

Entrance Design_02

Hall Door

1

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3

4

Hall Door Design
1. Main Entrance View
2. Other Entrance View (Residential)
3. Top Floor Entrance View for MRL (Office)
4. Top Floor Entrance View for MRL (Residential)

1

DOOR
Hairline Laser Marking Finish (LM-03)*

JAMB
Hairline Finish - Wide*

HALL BUTTON
BSI-99

INDICATOR
HD-50D

2

DOOR
Painted Sheet Steel(F-287500)

JAMB
Painted Sheet Steel(F-287500)-Narrow

HALL BUTTON
BSI-99

3

DOOR
Hairline Etching Finish(ET-15)*

JAMB
Hairline Finish - Wide*

HALL BUTTON
BSI-99D

4

DOOR
Painted Sheet Steel(F-287500)

JAMB
Painted Sheet Steel(F-287500)-Wide

HALL BUTTON
BSI-99D

*For Stainless Steel, Neometal is used as Standard

Ceiling Design_03

Ceiling

1

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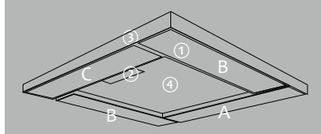
3

4

The Ceiling Design
1. EX-04N
2. EX-10N
3. EX-08N
4. EX-11N

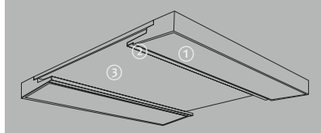
1

①Polygal, ②STS Mirror,
③Painted Sheet(Color: Black)
④Painted Sheet(Color: White)
Ceiling Height: A-150/B-140/C-130



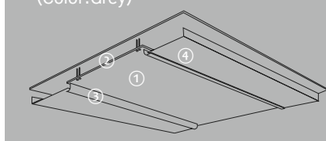
2

①Polygal, ②STS Mirror,
③Color Sheet(Color: Blue Pearl)



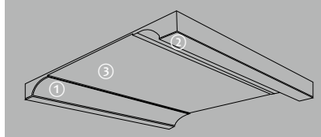
3

①Polygal, ②STS Mirror,
③Aluminum, ④Painted Sheet
(Color:Grey)



4

①Acrylic, ②Aluminum,
③Color Sheet(Color: Blue Pearl)



*LED Lamp can apply as option

Fixture Design_04

COP/ LOP/ LIOP

DM-C-TK11

DM-C-99

Option(excl. MR Geared)

FM-C-TK11

FM-C-99

Button Detail View

TK11

99

TACTILE BUTTON
(Optional)

Handicapped COP(Option)

HAM-TK11P

HAM-99P

Hall button

Surface mounted type

BSE-TK11 BSE-TK11D BSI-TK11 BSI-TK11D

Flush mounted type

BPC-TK11 BPC-TK11D BPC-TK11DTW

BSE-99 BSE-99D BSI-99 BSI-99D

BPC-99 BPC-99D BPC-TK99DTW

Handrail

HRR-01E

HRR-01N

Painting color

Color Chart

F-287500

F-309003

F-288002

F-428501

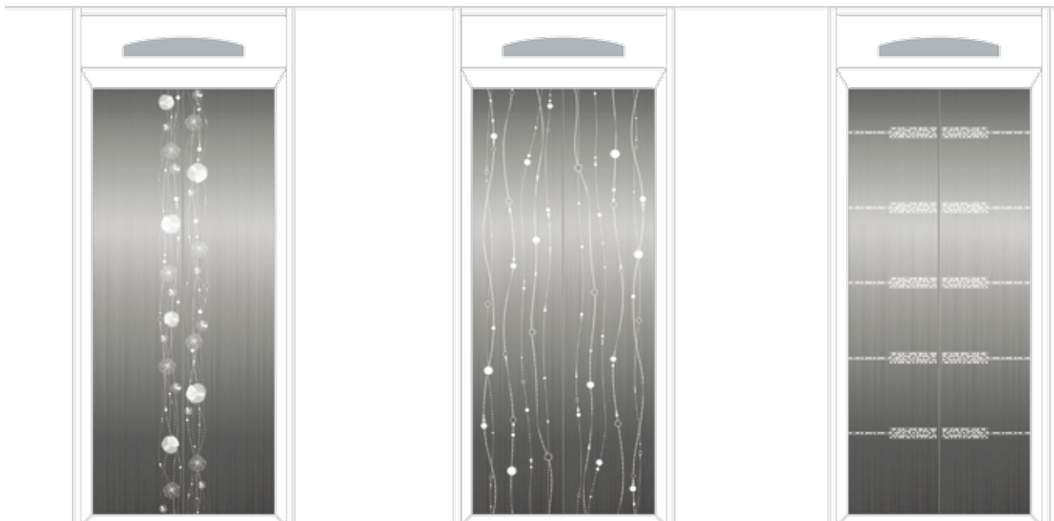
Indicator

HD-10D

HD-50D

Pattern Design_05

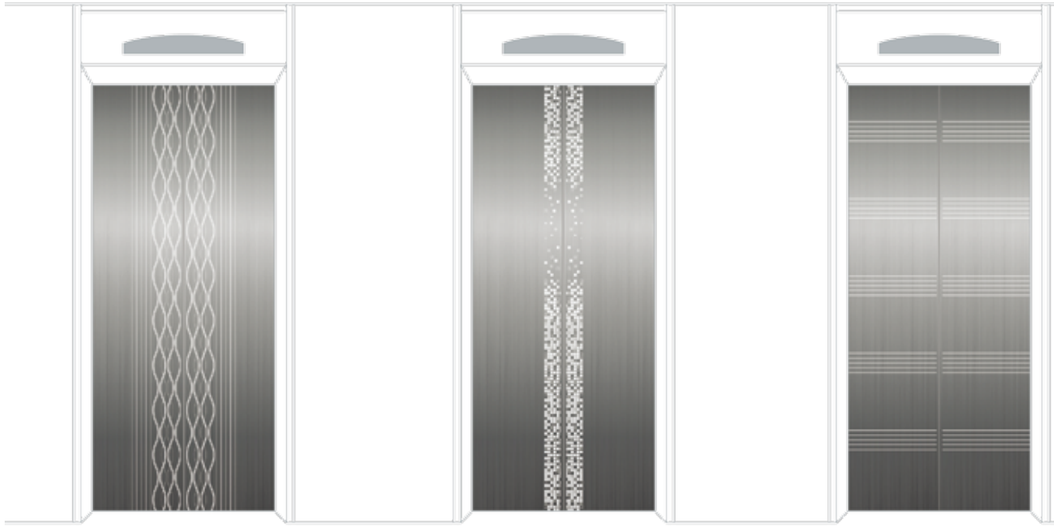
Laser Marking Pattern



LM-01

LM-02

LM-03

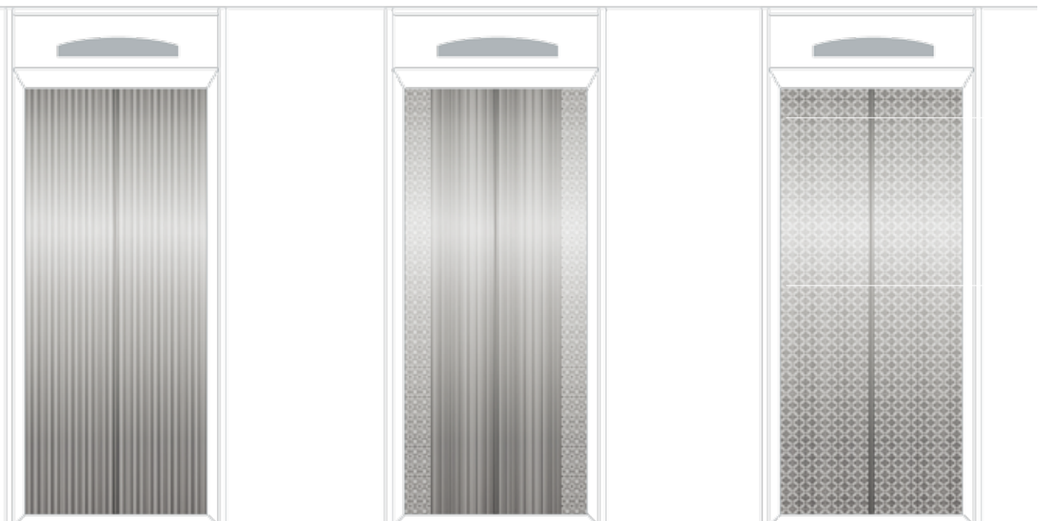


LM-04

LM-05

LM-06

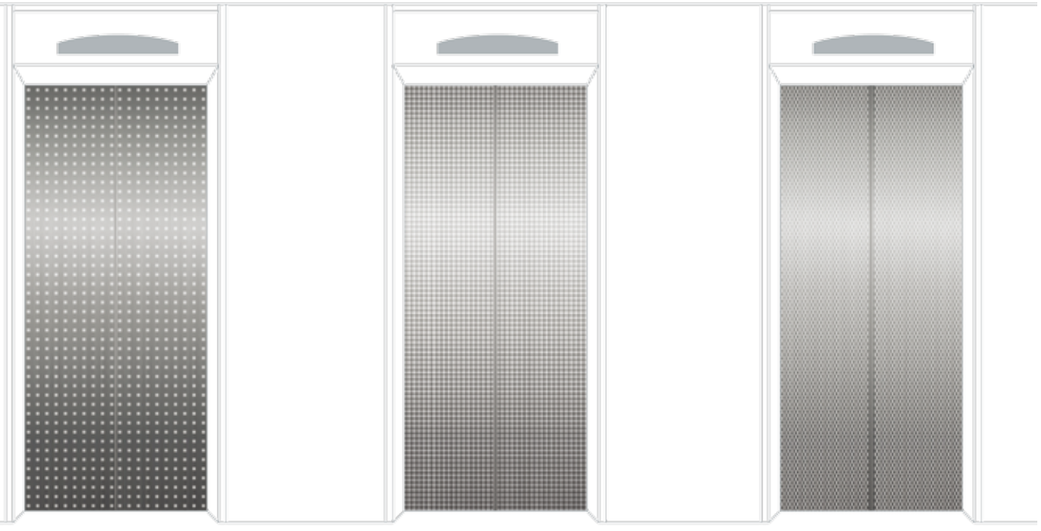
Etching Pattern



DE-34

ET-15

DE-45



DE-74

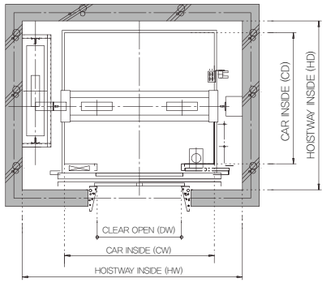
DE-72

DE-39

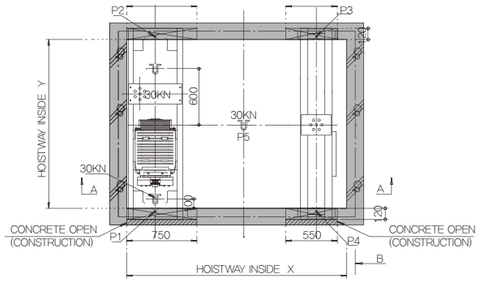
The Planning Information

MRL (Evolution1)

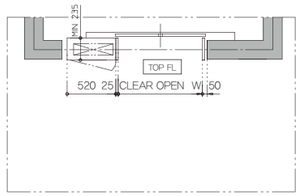
Hoistway Plan



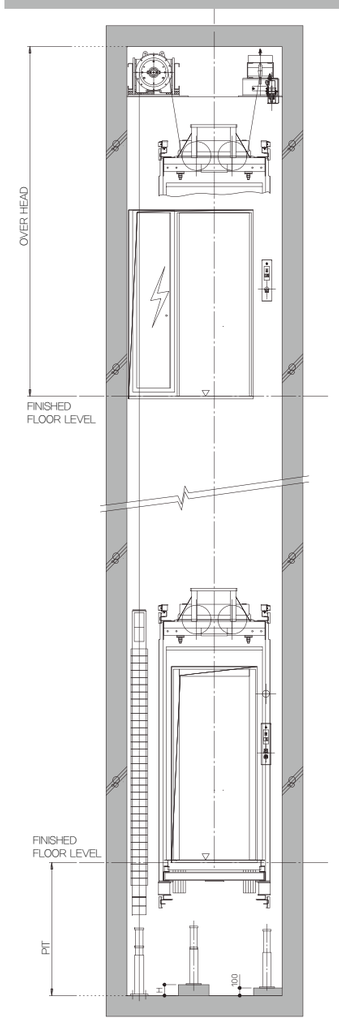
Top Beam Plan



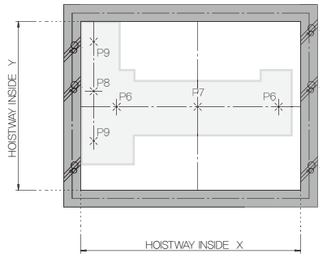
Hoistway Plan (Control Floor)



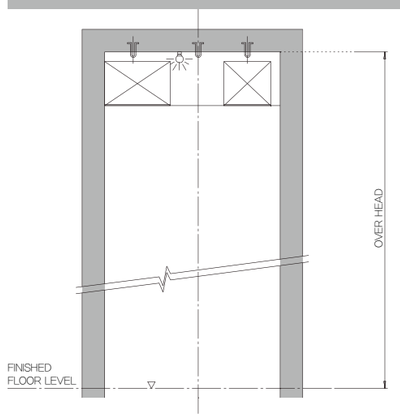
Hoistway Section Plan



Pit Plan



Overhead hole recess



Standard Specification(Minimum size) & Motor output

(unit : mm)

Type	CAPACITY		Rated Speed (m/s)	Max Travel (m)	Clear Opening (DW×DH)	Car Size (CW×CD)	Hoistway Size (HW×HD)	Motor Output (KW)	MCCB Capacity (A)
	Rated Load (Kg)	Number of Passengers							
P550-C060	550	8 [7]	1	50	800×2100	1100×1250	1900×1700	4.4	20
P550-C090			1.5	75				8.4	20
P550-C0105			1.75	80				9.8	30
P630-C060	630	9 [8]	1	50	800×2100	1100×1400	1900×1800	4.4	20
P630-C090			1.5	80				8.4	20
P630-C0105			1.75	80				9.8	30
P680-C060	680	10 [9]	1	50	800×2100	1300×1250	2050×1700	5.6	20
P680-C090			1.5	80				8.4	20
P680-C0105			1.75	80				9.8	30
P750-C060	750	11 [10]	1	50	800×2100	1300×1400	2050×1800	5.6	20
P750-C090			1.5	80				8.4	30
P750-C0105			1.75	80				9.8	30
P750-C0120			2	80				11.2	30
P900-C060	900	13 [12]	1	50	900×2100	1500×1400	2250×1800	6.8	20
P900-C090			1.5	80				10.2	30
P900-C0105			1.75	80				11.9	40
P900-C0120			2	80				13.6	40
P1000-C060	1000	15 [13]	1	50	900×2100	1600×1400	2350×1800	6.8	20
P1000-C090			1.5	80				10.2	30
P1000-C0105			1.75	80				11.9	40
P1000-C0120			2	80				13.6	40
P1150-C060	1150	17 [15]	1	50	1000×2100	1800×1400	2550×1800	7.5	30
P1150-C090			1.5	80				11.3	40
P1150-C0105			1.75	80				13.2	40
P1150-C0120			2	80				15.1	50

- Hoistway dimension shown is after pit waterproof work
- Moter capacity is subject to change upon lift specific
- [ ] indicated shall be based on EN81-1

Redation load on the beam / Reaction load on the PIT

Type	Rated Load (Kg)	Number of Passengers	Rated Speed (m/s)	Reaction load on the beam				Hook	Reaction load on the PIT			
				P1	P2	P3	P4	P5	P6	P7	P8	P9
P550-C060	550	8 [7]	1	3700	2000	600	1700	2500	2700	7500	6150	480
P550-C090			1.5									
P550-C0105			1.75									
P630-C060	630	9 [8]	1	3700	2300	700	1700	2500	2750	7900	6400	480
P630-C090			1.5									
P630-C0105			1.75									
P680-C060	680	10 [9]	1	4500	1800	700	1900	2500	2850	8300	6650	480
P680-C090			1.5									
P680-C0105			1.75									
P750-C060	750	11 [10]	1	4500	2100	800	1900	2500	3450	8750	7250	480
P750-C090			1.5									
P750-C0105			1.75									
P750-C0120			2									
P900-C060	900	13 [12]	1	5100	2300	700	2200	2500	3950	9750	7950	580
P900-C090			1.5									
P900-C0105			1.75									
P900-C0120			2									
P1000-C060	1000	15 [13]	1	5400	2500	700	2400	2500	4150	10520	8550	580
P1000-C090			1.5									
P1000-C0105			1.75									
P1000-C0120			2									
P1150-C060	1150	17 [15]	1	6050	2800	700	2400	3500	4500	11950	9650	580
P1150-C090			1.5									
P1150-C0105			1.75									
P1150-C0120			2									

- [ ] indicated shall be based on EN81-1

Overhead & Pit

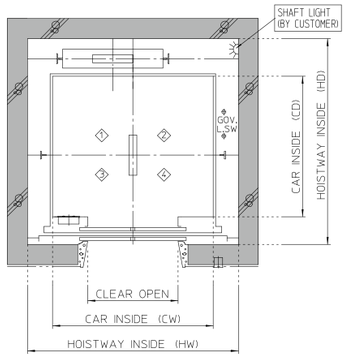
Rated Speed (m/s)	Over head	Pit
1	3800	1200
1.5	4050	1450
1.75	4100	1550
2	4300	1600

- What is on this catalogue is subject to change without notice.

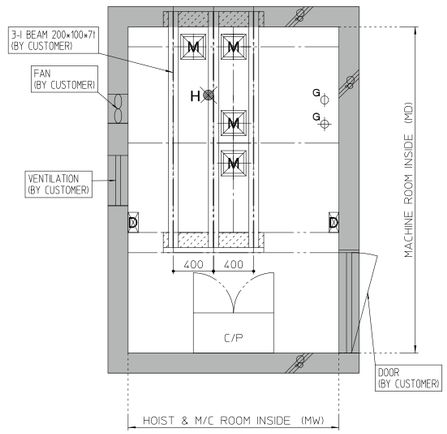
The Planning Information

MR Gearless (GL1)

Hoistway Plan

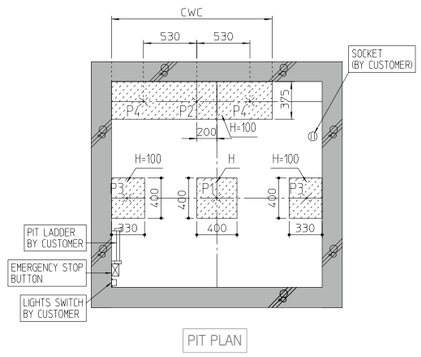


Machine Room (Normal Type)



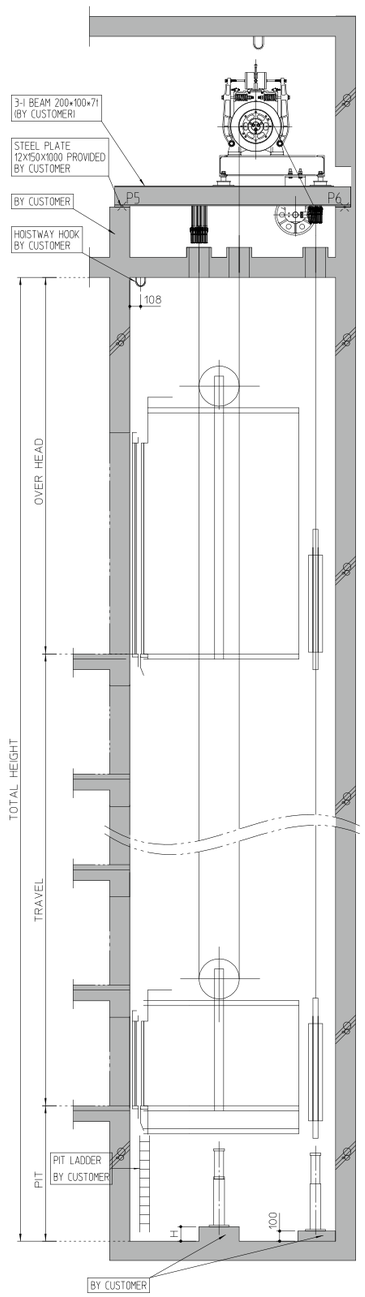
HOLES OF
MACHINEROOM PLAN

Pit Plan



PIT PLAN

Hoistway Section Plan



Standard Specification(Minimum size)

(unit : mm)

Type	CAPACITY		Rated Speed (m/sec)	Max Travel (m)	Clear Opening (DW×DH)	Car Size (CW×CD)	Hoistway Size (HW×HD)	Machineroom Size (MW×MD)	MCCB Capacity(A)
	Rated Load (Kg)	Number of Passengers							
P550-C060	550	8 [7]	1	50	800×2100	1400×1030 [1100×1250]	1800×1650 [1800×1900]	1800×3450 [1800×3100]	20
P550-C090			1.5	90					20
P550-C0105			1.75	90					20
P630-C060	630	9 [8]	1	50	800×2100	1400×1130 [1100×1400]	1800×1730 [1800×2050]	1800×3530 [1800×3250]	20
P630-C090			1.5	90					20
P630-C0105			1.75	90					30
P680-C060	680	10 [9]	1	50	800×2100	1400×1250 [1300×1250]	1800×1850 [1800×1900]	1800×3650 [1800×3100]	20
P680-C090			1.5	90					20
P680-C0105			1.75	90					30
P750-C060	750	11 [10]	1	50	800×2100	1400×1350 [1300×1400]	1800×1950 [1800×2050]	1800×3750 *1820×3750 [1800×3250]	20
P750-C090			1.5	90					30
P750-C0105			1.75	90					30
P750-C0120			2	90					30
P750-C0150			2.5	125					50
P900-C060	900	13 [12]	1	50	900×2100	1600×1350 [1500×1400]	2100×1950 [2000×2050]	2100×3750 [2000×3250]	20
P900-C090			1.5	90					30
P900-C0105			1.75	90					30
P900-C0120			2	110					40
P900-C0150			2.5	125					50
P1000-C060	1000	15 [13]	1	50	900×2100	1600×1500 [1600×1400]	2100×2100 [2100×2050]	2100×3900 [2100×3250]	20
P1000-C090			1.5	90					40
P1000-C0105			1.75	90					40
P1000-C0120			2	110					40
P1000-C0150			2.5	125					50
P1150-C060	1150	17 [15]	1	50	1000×2100	1800×1500 [1800×1400]	2300×2100 *2350×2145 [2300×2050]	2300×3900 *2350×3900 [2300×3250]	30
P1150-C090			1.5	90					40
P1150-C0105			1.75	90					40
P1150-C0120			2	110					50
P1150-C0150			2.5	125					60
P1350-C060	1350	20(18)	1	50	1000×2100	1800×1700 [2000×1450]	2400×2400 [2550×2150]	2400×4200 [2550×3550]	30
P1350-C090			1.5	75					50
P1350-C0105			1.75	90					50
P1350-C0120			2	110					50
P1350-C0150			2.5	125					60
P1600-C060	1600	24(21)	1	50	1100×2100	2000×1750 [2000×1700]	2550×2450 [2550×2400]	2550×4250 [2550×3600]	40
P1600-C090			1.5	75					50
P1600-C0105			1.75	90					50
P1600-C0120			2	110					60
P1600-C0150			2.5	125					60

- [ ] indicated shall be based on EN81-1

Overhead & PIT

Rated Load (Kg)	Rated Speed (m/s)	Overhead		Pit	
		Standard	EN81-1	Standard	EN81-1
550 630 680 750 900 1000 1150	1	4500	3800	1500	1200
	1.5	4700	3900	1800	1250
	1.75	4900	3950	2100	1300
	2	4900	4050	2100	1350
	2.5	5150	4750	2400	1750
1350 1600	1	4550	4100	1500	1300
	1.5	4750	4400	1800	1400
	1.75	4950	4500	2100	1400
	2	4950	4550	2100	1400
	2.5	5150	4900	2400	1850

- Overhead : Cage Height of Car = 2400mm
- In Case distance between car top balustrade-exceeds 850mm, overhead requires 400mm morew

Length of Machine beam

Capacity		Machine Beam	
Rated Load (Kg)	Number of Passengers	Standard	EN81-1
550	8 [7]	1950	2200
600 [630]	9 [8]	2030	2350
680	10 [9]	2150	2200
750	11 [10]	2250	2350
900	13 [12]	2250	2350
1000	15 [13]	2400	2350
1150	17 [15]	2400	2350
1350	20 [18]	2700	2450
1600	24 [21]	2750	2700

- [ ] indicated shall be based on EN81-1

Redation load on the beam / Reaction load on the PIT

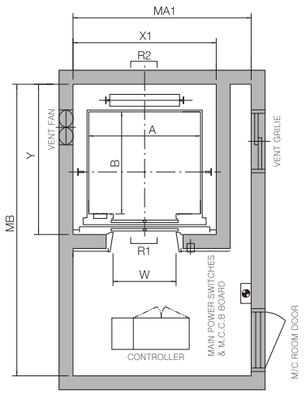
Type	Rated Load (Kg)	Number of Passengers	Rated Speed (m/sec)	Reaction on the PIT		Reaction on the Machineroom	
				P1	P2	P5	P6
P550-C060	550	8 [7]	1	8000	6600	3200	5300
P550-C090			1.5				
P550-C0105			1.75				
P630-C060	630	9 [8]	1	8600	7000	3300	5600
P630-C090			1.5				
P630-C0105			1.75				
P680-C060	680	10 [9]	1	8800	7100	3400	5600
P680-C090			1.5				
P680-C0105			1.75				
P750-C060	750	11 [10]	1	9100	7200	3600	5600
P750-C090			1.5				
P750-C0105			1.75				
P750-C0120			2				
P900-C060	900	13 [12]	1	12000	10000	4500	7500
P900-C090			1.5				
P900-C0105			1.75				
P900-C0120			2				
P1000-C060	1000	15 [13]	1	13000	10200	4700	8000
P1000-C090			1.5				
P1000-C0105			1.75				
P1000-C0120			2				
P1150-C060	1150	17 [15]	1	13000	10200	4700	8000
P1150-C090			1.5				
P1150-C0105			1.75				
P1150-C0120			2				
P1350-C060	1350	20 [18]	1	15600	12600	4800	12700
P1350-C090			1.5				
P1350-C0105			1.75				
P1350-C0120			2				
P1350-C0150			2.5				
P1350-C060	1600	24 [21]	1	17500	13700	5000	14000
P1350-C090			1.5				
P1350-C0105			1.75				
P1350-C0120			2				
P1350-C0120			2.5				

- [ ] indicated shall be based on EN81-1

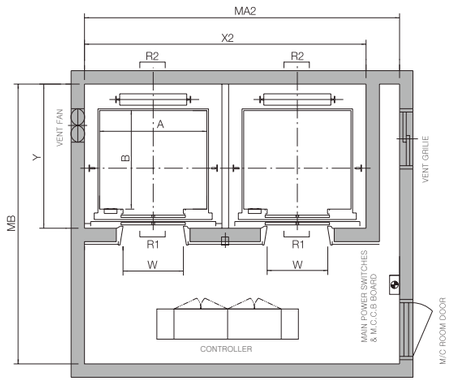
The Planning Information

MR Geared (EleXess)

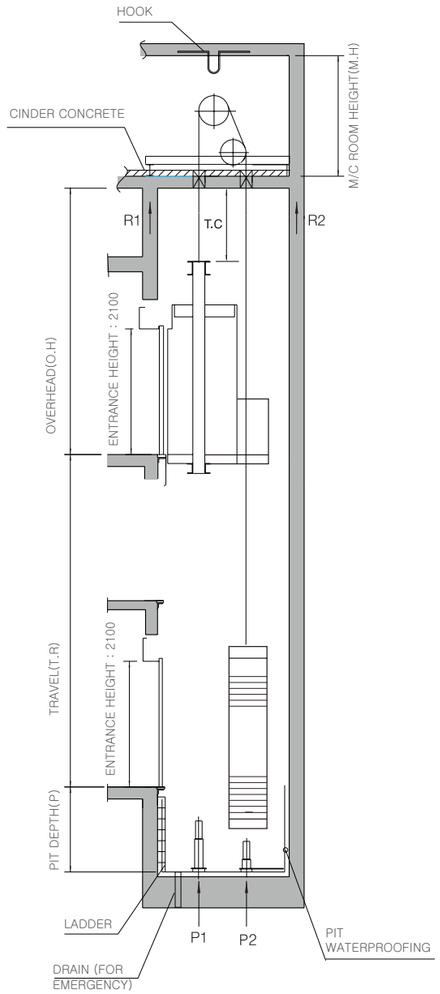
Hoistway & Machine Room Plan (Normal Type)



Hoistway & Machine Room Plan (2car)



Hoistway Section Plan



Standard Specification (Minimum Size)

(unit : mm)

Rated Speed (m/sec)	Capacity		Clear Opening	Car Inside (A×B) (mm)	Hoistway Inside Dimensions (mm)		Machine Room Inside Dimensions (mm)	
	Number of passengers	Load (kg)		1car(x1), 2car(x2)	1Car (X×Y)	2Car (X2×Y)	1Car (MA×MB)	2Car (MA2×MB)
0.75, 1	*6	*450	800×2100	1400×850	1800×1500	3700×1500	2100×3450	4000×3450
0.75 1 1.5 1.75	8	550	800×2100	1400×1030	1800×1650	3700×1650	2100×3650	4000×3650
	9	600	800×2100	1400×1130	1800×1750	3700×1750	2100×3700	4000×3700
	10	680	800×2100	1400×1250	1800×1850	3700×1850	2100×3850	4000×3850
	11	750	800×2100	1400×1350	1800×1950	3700×1950	2100×3950	4000×3950
	13	900	900×2100	1600×1350	2100×1950	4350×1950	2400×3950	4550×3950
	15	1000	900×2100	1600×1500	2100×2100	4350×2100	2400×4100	4650×4100
1 1.5 1.75	17	1150	1000×2100	1800×1500	2350×2200	4800×2200	2650×4200	5100×4450
			1000×2100	1700×1600	2250×2300	4600×2300	2550×4300	4900×4300
	*20	*1350	1000×2100	1800×1700	2350×2450	4800×2450	2650×4450	5100×4450
			1100×2100	2000×1500	2550×2300	5250×2300	2850×4300	5550×4300
	*24	*1600	1100×2100	2000×1750	2550×2550	5250×2550	2850×4550	5550×4550
2 2.5	13	900	900×2100	1600×1350	2200×2150	1150×2150	2500×4150	4850×4150
	15	1000	900×2100	1600×1500	2200×2300	4550×2300	2500×4300	4850×4300
	17	1150	1000×2100	1800×1500	2400×2300	4950×2300	2700×4300	5250×4300
	20	1350	1000×2100	1800×1700	2400×2500	4950×2500	2700×4500	5250×4500
	24	1600	1100×2100	2000×1750	2600×2600	5350×2600	2900×4600	5650×4600

Notes
- Please consider errors at the time of construction, as the internal standards of shafts are minimum requirements
- The thickness of shafts should be a minimum 150mm or wider
- Please take into account the generation of heat and maintenance by installing ventilation (fans) and lighting (windows) equipment in the machinery room
- An additional charge may be applicable to items with asterisk(*)

Hoistway and Machine Room Size (Minimum Size)

(unit : mm)

Rated Speed (m/sec)	Overhead Height (O.H)	PIT Depth (P)	Height of Machine Room (M.H) Normal Type
45	3700 [3990]	1250 [1530]	2200
60	3800 [4000]	1250 [1530]	2200
90	3900 [4160]	1400 [1620]	2450
105	4100 [4240]	1600 [1670]	2450
120	4700 [4580]	2000 [2350]	2700
150	5000 [4830]	2150 [2660]	2900

- The above size is based on EN Code
- What is on this catalogue is subject to change without notice

Machine Room Reaction & Impact Load

(unit : kg)

Rated Speed (m/sec)	Number of Passengers	Load (kg)	Machine Room Reactor Power		Normal Type PIT Impact Load		Hook Machine Room (kg)	Remark
			R1	R2	Car Side (P1)	Counter Weight Side (P2)	Rated Load	
0.75, 1	6	450	2400	3300	5100	4200	2000	PIT impact load ≤ 60m/min/ ≥ 90m/min
0.75 1 1.5 1.75	8	550	2600	3600	5800/6500	4700/5000		
	9	600	2700	3700	5900/6900	4700/5500		
	10	680	2800	4400	6400/7700	5000/5900		
	11	750	3000	4400	6600/7900	5200/6100		
	13	900	4300	5900	9000/10600	7100/8400	2500	
	15	1000	4500	6200	9500/11200	7500/8800		
1 1.5 1.75	17	1150	5500	7000	10000/12000	8000/9800	3500	
	20	1350	6300	7800	11000/12500	9000/11500		
	24	1600	7000	8200	11500/13000	9500/12000		
2 2.5	13	900	8600	11500	14100	12600	6000	
	15	1000	9300	12000	14700	13000		
	17	1150	9700	12600	15800	13800		
	20	1350	10300	12900	16800	14400		
	24	1600	12400	12400	22600	19000		

Notes
- Please consider errors at the time of construction, as the internal standards of shafts are minimum requirements
- The thickness of shafts should be a minimum 150mm or wider
- Please take into account the generation of heat and maintenance by installing ventilation (fans) and lighting (windows) equipment in the machinery room

The Planning Information

Motor Output (MR Gearless)

Capacity		Rated Speed (m/s)	Motor output (kw)	MCCB rating(A)
Number of Passengers	Rated Load (kg)			
8 [P7]	550	1	5.3	20
		1.5	8.0	20
		1.75	9.3	20
9 [P8]	630	1	5.3	20
		1.5	8.0	20
		1.75	9.3	20
10 [P9]	680	1	5.3	20
		1.5	8.0	20
		1.75	9.3	30
11 [P10]	750	1	5.3	20
		1.5	8.0	30
		1.75	9.3	30
		2	10.7	30
		2.5	13.79	50
13 [P12]	900	1	6.6	20
		1.5	9.83	30
		1.75	11.5	30
		2	13.1	40
		2.5	17.12	50

Capacity		Rated Speed (m/sec)	Motor output (kw)	MCCB rating(A)
Number of Passengers	Rated Load (kg)			
15 [P13]	1000	1	6.6	20
		1.5	9.83	30
		1.75	11.5	40
		2	13.1	40
		2.5	17.12	50
17 [P15]	1150	1	7.53	30
		1.5	11.25	40
		1.75	13.15	40
		2	15	50
		2.5	19.73	60
20 [P18]	1350	1	9.1	30
		1.5	13.7	50
		1.75	16.	50
		2	18.3	50
		2.5	22.9	60
24 [P21]	1600	1	10.9	40
		1.5	16.2	50
		1.75	18.9	50
		2	21.6	60
		2.5	27.1	60

- The above motor output is based on 380V, 60Hz 3 phase
- [ ] indicated shall be based on EN Code

Motor Output (MR Geared)

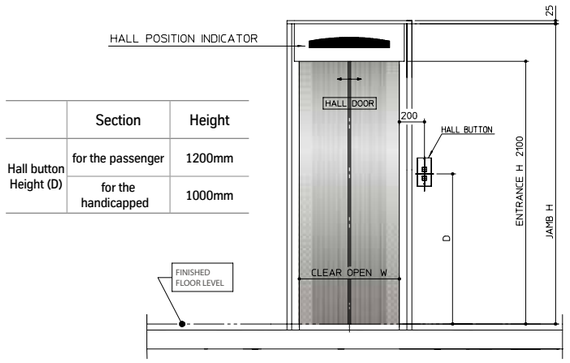
Capacity		Rated Speed (m/s)	Motor output (kw)	MCCB rating(A)
Number of Passengers	Rated Load (kg)			
6	450	0.75	5.5	15
		1	5.5	15
8	550	0.75	5.5	15
		1	5.5	15
		1.5	7.5	20
		1.75	9.5	20
9	600	0.75	5.5	15
		1	5.5	20
		1.5	7.5	20
		1.75	9.5	30
10	680	0.75	5.5	15
		1	7.5	20
		1.5	9.5	30
		1.75	11	30
11	750	0.75	5.5	15
		1	7.5	20
		1.5	9.5	30
		1.75	11	30
13	900	0.75	9.5	20
		1	9.5	20
		1.5	13.5	30
		1.75	13.5	30
		2	15	40
		2.5	19	50

Capacity		Rated Speed (m/sec)	Motor output (kw)	MCCB rating(A)
Number of Passengers	Rated Load (kg)			
15	1000	0.75	9.5	20
		1	9.5	30
		1.5	13.5	40
		1.75	15.	40
		2	19	50
		2.5	22	50
17	1150	1	13.5	30
		1.5	15	40
		1.75	15	40
		2	19	50
		2.5	22	60
20	1350	1	13.5	30
		1.5	18.5	40
		1.75	18.5	50
		2	22	50
		2.5	30	60
24	1600	1	15	40
		1.5	22	50
		1.75	22	50
		2	30	60
		2.5	30	75

- The above motor output is based on 380V, 60Hz 3 phase

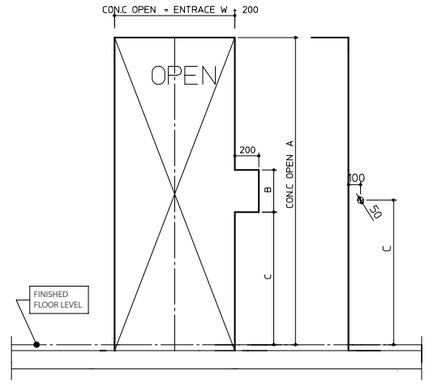
Entrance Planning Information

Entrance (with Transom)



	Section	Height
Hall button Height (D)	for the passenger	1200mm
	for the handicapped	1000mm

Structural Opening (with Transom)

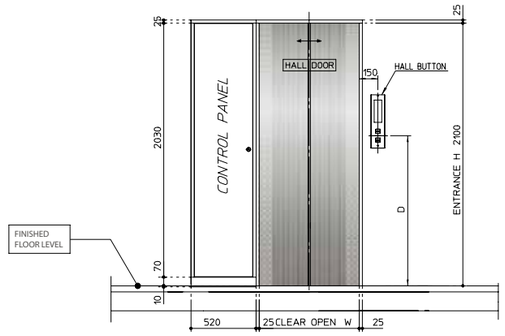


Entrance (without Transom)

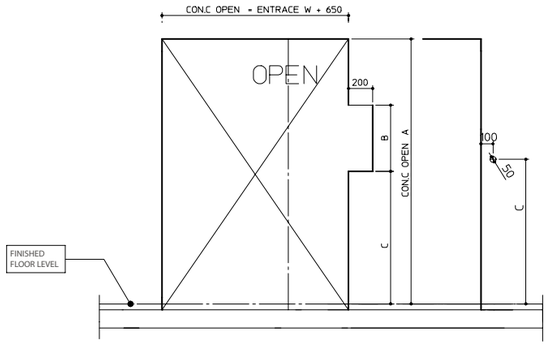
	Section	Height
Hall button Height (D)	for the passenger	1200mm
	for the handicapped	1000mm

Structural Opening (without Transom)

C/P Entrance (Control Floor)_MRL



Structural Opening (Control Floor)_MRL



General requirement for provision by other contractor

The following items are to be performed or furnished by others.

MRL Elevator

1. Power supply to main circuit breaker in the hoistway per elevator.(refer to technical data of specification)
   * power supply fluctuation should be kept within `5%.
2. A circuit breaker for each elevator per the local elevator code with feeder in the hoistway.
3. A separate power supply for lighting with 15 ampere circuit breaker for each elevator.
4. Wiring and trunking for the intercommunication system and svp panel(if any) to the building management room.
5. Power outlet and inlet in the hoistway and pit with light switches.
6. Temperature in the hoistway to be kept between 0~c and 40~c.
   Humidity in the machine room not exceeding 90%.
   Heat dissipation equipment for the machine room.
7. Hoisting beam or hook for each elevator maximum loading capacity.
8. Structural openings for each landing as shown on the layout plan.
9. Front entrance wall to be constructed for a sill to be set in place.
   Angle bracket projection for sill supporting. (supply by tkek)
10. Hoistway wall to be constructed with enough strength for fixing rail brackets.
11. Reinforced dry pit to sustains impact loads from car and counterweight.
12. Landing entrance wall to be finished after frames and sill are set in place.
13. Suitable hoistway wall reinforced to sustain reaction load.

* Remarks
The clear hoistway dimension indicated on the layout plan are minimum requirement for contract specification.
The tolerance of full hoistway shall be kept within 30 mm for full height of hoistway.

MR Gearless·Geared Elevator

1. Power supply to main circuit breaker in the machine room per elevator.(refer to technical data of specification)
   * power supply fluctuation should be kept within `5%.
2. A circuit breaker for each elevator per the local elevator code with feeder in the machine room.
3. A separate power supply for lighting with 15 ampere circuit breaker for each elevator.
4. Wiring and trunking for the intercommunication system and svp panel (if any) from machine room to the building management room.
5. Power outlet and inlet in the machine room and pit with light switches.
6. Access door and ventilation in the machine room.
   size of lockable access door to be of 700mm width and 1800mm height or above.
7. Temperature in the machine room to be kept between 0~c and 40~c.
   Humidity in the machine room not exceeding 90%.
   Heat dissipation equipment of the machine room.
8. Hoisting beam or hook for each elevator's maximum loading capacity.
9. Suitable machine room with reinforced concrete slab.
   cinder concrete not to be completed until equipments are set in place.
10. Structural openings for each landing as shown on the layout plan.
11. Front entrance wall to be constructed for a sill to be set in place.
    angle bracket projection for sill supporting.(supply by tkek)
12. Hoistway wall to be constructed with enough strength for fixing rail brackets.
13. Reinforced dry pit to sustains impact loads from car and counterweight.
14. Landing entrance wall to be finished after frames and sill are set in place.
15. Suitable hoistway wall reinforced for sustaining reaction load.

* Remarks
The clear hoistway dimension indicated on the layout plan are minimum requirement for contract specification.
The tolerance of full hoistway shall be kept within 30 mm for full height of hoistway.

Our Brand Values

Providing you all the way with end to end solutions.

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At your service from the moment you call, they will work to understand your needs, then recommend the best solution for you down to the last technical detail.

Project Managers
Your dedicated project manager will be your day to day point of contact responsible for making sure everything's done on time, to budget to keep you happy.

Installation Technicians
Punctual and thorough in their approach, our installation technicians get the job done quickly, without cutting any corners.

Customer Care Coordinators
Whether you need to tell us that somebody's stuck in the lift or have a question about reducing power consumption, help is just a call away.

Maintenance Engineers
Asia's most helpful service experts are always on hand to keep your portfolio of equipment moving

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Service

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